CRF ⬤ rs Corrected by the STIC Syste⬤ Branch

~~ENTERED~~

Serial Numb r: _09/831,061_

CRF Processing Date: _5/7/2002_
Edited by: _A_
Verified by: _A_ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examin r: Th abov corrections must b communicated to th applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

PCT09

```
   3 <110> APPLICANT: PIERRE FABRE MEDICAMENT
   5 <120> TITLE OF INVENTION: Use of an enterobacterium protein OmpA for specific
targeting towards
   6         antigen-presenting cells
   8 <130> FILE REFERENCE: D17777
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/831,061
C--> 10 <141> CURRENT FILING DATE: 2002-03-25
  10 <150> PRIOR APPLICATION NUMBER: FR 98 14007
  11 <151> PRIOR FILING DATE: 1998-11-06
  13 <150> PRIOR APPLICATION NUMBER: PCT/FR99/02734
  14 <151> PRIOR FILING DATE: 1999-11-08
  16 <160> NUMBER OF SEQ ID NOS: 2
  18 <170> SOFTWARE: PatentIn Ver. 2.2
  20 <210> SEQ ID NO: 1
  21 <211> LENGTH: 1035
  22 <212> TYPE: DNA
  23 <213> ORGANISM: Klebsiella pneumoniae
  25 <220> FEATURE:
  26 <221> NAME/KEY: exon
  27 <222> LOCATION: (1)..(1032)
  29 <220> FEATURE:
  30 <221> NAME/KEY: intron
  31 <222> LOCATION: (1033)..(1035)
  33 <220> FEATURE:
  34 <221> NAME/KEY: CDS
  35 <222> LOCATION: (1)..(1032)
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  39 Met Lys Ala Ile Phe Val Leu Asn Ala Ala Pro Lys Asp Asn Thr Trp
  40  1               5                  10                  15
  42 tat gca ggt ggt aaa ctg ggt tgg tcc cag tat cac gac acc ggt ttc    96
  43 Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe
  44            20                  25                  30
  46 tac ggt aac ggt ttc cag aac aac aac ggt ccg acc cgt aac gat cag   144
  47 Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln
  48            35                  40                  45
  50 ctt ggt gct ggt gcg ttc ggt ggt tac cag gtt aac ccg tac ctc ggt   192
  51 Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly
  52       50                  55                  60
  54 ttc gaa atg ggt tat gac tgg ctg ggc cgt atg gca tat aaa ggc agc   240
  55 Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser
  56  65                  70                  75                  80
  58 gtt gac aac ggt gct ttc aaa gct cag ggc gtt cag ctg acc gct aaa   288
  59 Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys
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RAW SEQUENCE LISTING   DATE: 05/07/2002
PATENT APPLICATION: US/09/831,061   TIME: 17:26:59

Input Set : N:\jumbos\831061.txt
Output Set: N:\CRF3\05072002\I831061.raw

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62 ctg ggt tac ccg atc act gac gat ctg gac atc tac acc cgt ctg ggc   336
63 Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly
64           100               105               110
66 ggc atg gtt tgg cgc gct gac tcc aaa ggc aac tac gct tct acc ggc   384
67 Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly
68           115               120               125
70 gtt tcc cgt agc gaa cac gac act ggc gtt tcc cca gta ttt gct ggc   432
71 Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly
72      130               135               140
74 ggc gta gag tgg gct gtt act cgt gac atc gct acc cgt ctg gaa tac   480
75 Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr
76 145               150               155               160
78 cag tgg gtt aac aac atc ggc gac gcg ggc act gtg ggt acc cgt cct   528
79 Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro
80               165               170               175
82 gat aac ggc atg ctg agc ctg ggc gtt tcc tac cgc ttc ggt cag gaa   576
83 Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu
84           180               185               190
86 gat gct gca ccg gtt gtt gct ccg gct ccg gct ccg gct ccg gaa gtg   624
87 Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val
88           195               200               205
90 gct acc aag cac ttc acc ctg aag tct gac gtt ctg ttc aac ttc aac   672
91 Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn
92      210               215               220
94 aaa gct acc ctg aaa ccg gaa ggt cag cag gct ctg gat cag ctg tac   720
95 Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr
96 225               230               235               240
98 act cag ctg agc aac atg gat ccg aaa gac ggt tcc gct gtt gtt ctg   768
99 Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu
100               245               250               255
102 ggc tac acc gac cgc atc ggt tcc gaa gct tac aac cag cag ctg tct   816
103 Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser
104           260               265               270
106 gag aaa cgt gct cag tcc gtt gtt gac tac ctg gtt gct aaa ggc atc   864
107 Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile
108      275               280               285
110 ccg gct ggc aaa atc tcc gct cgc ggc atg ggt gaa tcc aac ccg gtt   912
111 Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val
112      290               295               300
114 act ggc aac acc tgt gac aac gtg aaa gct cgc gct gcc ctg atc gat   960
115 Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp
116 305               310               315               320
118 tgc ctg gct ccg gat cgt cgt gta gag atc gaa gtt aaa ggc tac aaa   1008
119 Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys
120           325               330               335
122 gaa gtt gta act cag ccg gcg ggt taa                               1035
123 Glu Val Val Thr Gln Pro Ala Gly
124           340
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/831,061

DATE: 05/07/2002
TIME: 17:26:59

Input Set : N:\jumbos\831061.txt
Output Set: N:\CRF3\05072002\I831061.raw

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127 <210> SEQ ID NO: 2
128 <211> LENGTH: 344
129 <212> TYPE: PRT
130 <213> ORGANISM: Klebsiella pneumoniae
132 <400> SEQUENCE: 2
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134   1               5                  10                  15
136 Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe
137             20                  25                  30
139 Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln
140             35                  40                  45
142 Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly
143       50                  55                  60
145 Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser
146   65                  70                  75                  80
148 Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys
149             85                  90                  95
151 Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly
152             100                 105                 110
154 Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly
155             115                 120                 125
157 Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly
158       130                 135                 140
160 Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr
161 145                 150                 155                 160
163 Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro
164             165                 170                 175
166 Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu
167             180                 185                 190
169 Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Glu Val
170             195                 200                 205
172 Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn
173       210                 215                 220
175 Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr
176 225                 230                 235                 240
178 Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu
179             245                 250                 255
181 Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser
182             260                 265                 270
184 Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile
185             275                 280                 285
187 Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val
188       290                 295                 300
190 Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp
191 305                 310                 315                 320
193 Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys
194             325                 330                 335
196 Glu Val Val Thr Gln Pro Ala Gly
197             340
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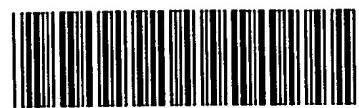
VERIFICATION SUMMARY
PATENT APPLICATION: US/09/831,061

DATE: 05/07/2002
TIME: 17:27:00

Input Set : N:\jumbos\831061.txt
Output Set: N:\CRF3\05072002\I831061.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/831,061

DATE: 05/02/2002
TIME: 13:36:47

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF3\05022002\I831061.raw

**Does Not Comply
Corrected Diskette Needed**

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  3 <110> APPLICANT: PIERRE FABRE MDICAMENT
  5 <120> TITLE OF INVENTION: Use of an enterobacterium protein OmpA for specific
targeting towards
  6        antigen-presenting cells
  8 <130> FILE REFERENCE: D17777
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/831,061
C--> 10 <141> CURRENT FILING DATE: 2002-03-25
 10 <150> PRIOR APPLICATION NUMBER: FR 98 14007
 11 <151> PRIOR FILING DATE: 1998-11-06
 13 <150> PRIOR APPLICATION NUMBER: PCT/FR99/02734
 14 <151> PRIOR FILING DATE: 1999-11-08
 16 <160> NUMBER OF SEQ ID NOS: 2
 18 <170> SOFTWARE: PatentIn Ver. 2.2
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ERRORED SEQUENCES

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127 <210> SEQ ID NO: 2
128 <211> LENGTH: 344
129 <212> TYPE: PRT
130 <213> ORGANISM: Klebsiella pneumoniae
132 <400> SEQUENCE: 2
133 Met Lys Ala Ile Phe Val Leu Asn Ala Ala Pro Lys Asp Asn Thr Trp
134  1               5                  10                  15
136 Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe
137             20                  25                  30
139 Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln
140             35                  40                  45
142 Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly
143         50                  55                  60
145 Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser
146  65                  70                  75                  80
148 Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys
149                 85                  90                  95
151 Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly
152             100                 105                 110
154 Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly
155         115                 120                 125
157 Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly
158         130                 135                 140
160 Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr
161 145                 150                 155                 160
163 Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro
164                 165                 170                 175
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166 Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu
167         180                 185                 190
169 Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val
170         195             200             205
172 Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn
173         210             215             220
175 Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr
176 225             230             235                 240
178 Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu
179             245             250                 255
181 Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser
182         260             265             270
184 Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile
185         275             280             285
187 Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val
188     290             295             300
190 Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp
191 305             310             315                 320
193 Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys
194             325             330             335
196 Glu Val Val Thr Gln Pro Ala Gly
197         340
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E--> 201 (1
E--> 203 1

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/831,061

DATE: 05/02/2002
TIME: 13:36:48

Input Set : **N:\EBONY'S\EP.txt**
Output Set: **N:\CRF3\05022002\I831061.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:201 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
M:332 Repeated in SeqNo=2